

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/EP2004/009690

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D333/20 C07D307/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/062219 A (BORGHESE ALFIO ;LILLY CO ELI (US)) 31 July 2003 (2003-07-31) claim 1	1-11
Y	WO 03/061825 A (DSM NV ;TUCKER CHARLES EDWARD (US); JIANG QIONGZHONG (US)) 31 July 2003 (2003-07-31) examples 81-83	1-11
Y	WO 03/061826 A (DSM NV ;TUCKER CHARLES EDWARD (US); JIANG QIONGZHONG (US)) 31 July 2003 (2003-07-31) examples 93-99	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

1 March 2005

Date of mailing of the international search report

09.05.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Steendijk, M

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11

Process for the preparation of compounds of formula I

2. claim: 12

Compounds of formula I

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/009690

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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WO 03061825	A	31-07-2003	US 2003144521 A1 US 2003181318 A1 BR 0307120 A CA 2471389 A1 EP 1465726 A1 EP 1497245 A1 WO 03061824 A1 WO 03061825 A1 WO 03061826 A1 WO 03062180 A1 WO 03062181 A1 US 2003171213 A1 US 2003181319 A1	31-07-2003 25-09-2003 28-12-2004 31-07-2003 13-10-2004 19-01-2005 31-07-2003 31-07-2003 31-07-2003 31-07-2003 31-07-2003 11-09-2003 25-09-2003
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WO 0210113	A	07-02-2002	DE 10036516 A1 AU 8763501 A BR 0112773 A CA 2417269 A1 CZ 20030191 A3 EE 200300038 A WO 0210113 A1 EP 1303475 A1 HU 0301503 A2 JP 2004505104 T PL 358717 A1 US 2004030178 A1	07-02-2002 13-02-2002 24-06-2003 24-01-2003 16-04-2003 15-10-2004 07-02-2002 23-04-2003 28-08-2003 19-02-2004 09-08-2004 12-02-2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TAKESHI OHKUMA ET AL: "General Asymmetric Hydrogenation of Hetero-aromatic Ketones" ORGANIC LETTERS, ACS, WASHINGTON, DC, US, vol. 2, no. 12, 2000, pages 1749-1751, XP002255184 ISSN: 1523-7060 cited in the application Scheme 1, table 1	1-11
Y	SAKURABA S ET AL: "EFFICIENT ASYMMETRIC HYDROGENATION OF BETA- AND GAMMA-AMINO KETONE DERIVATIVES LEADING TO PRACTICAL SYNTHESIS OF FLUOXETINE AND EPROZINOL" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 43, no. 5, 1995, pages 748-753, XP001071298 ISSN: 0009-2363 cited in the application table 1	1-11
A	WO 02/10113 A (GEWALD RAINER ;ASTA MEDICA AG (DE)) 7 February 2002 (2002-02-07) claim 2	1-11